

Q25 P263

Change in thermal energy

= heat + work

$$= \underset{\substack{\uparrow \\ \text{leaving}}}{-2.05} + (45\text{N} \times 0.24\text{m})$$

$$45 \times 0.24 = 10.8 - 2 = 8.8\text{J}$$

Q22



$$T_E = ?$$



$$-M_w C_w (T_E - T_{wi}) = m_i L_f + m_i C_w (T_E - T_i)$$

$$- \underset{8}{0.4} (4180) (T_E - 50) = \underset{\text{circled}}{0.05 (3.3 \times 10^5)} + \underset{\text{circled}}{0.05} (4180) (T_E - 0)$$

history of atomic models

[http://highered.mheducation.com/olcweb/cgi/pluginpop.cgi?
it=swf::800::600::/sites/dl/free/0072482621/59229/B
ohr_Nav.swf::The%20Bohr%20Atom](http://highered.mheducation.com/olcweb/cgi/pluginpop.cgi?it=swf::800::600::/sites/dl/free/0072482621/59229/Bohr_Nav.swf::The%20Bohr%20Atom)